

ABSTRACT

The invention provides a hydrofluoric acid wastewater treatment method that achieves efficient recovery of hydrofluoric acid from hydrofluoric acid wastewater and also achieves sufficient reduction in the hydrofluoric acid concentration of the dehydrofluorinated water after treatment.

The hydrofluoric acid wastewater treatment method comprises the following steps:

10 a hydrofluoric acid concentration step (S1) comprising concentrating hydrofluoric acid wastewater by evaporation to produce a concentrated hydrofluoric acid water and a hydrofluoric acid-containing vapor;

a dissolution step (S2) comprising bringing the
15 hydrofluoric acid-containing vapor obtained in the hydrofluoric acid concentration step (S1) into contact with dissolution water to dissolve the vapor;

a neutralization step (S3) comprising bringing the residual hydrofluoric acid-containing vapor left from the
20 dissolution step (S2) into contact with an alkali to produce a neutralized liquid and a dehydrofluorinated vapor; and

a condensation step (S4) comprising condensing the dehydrofluorinated vapor obtained in the neutralization
25 step (S3) to produce condensed water.